```
     SSSSSSSS   CCCCCCC  RRRRRRR  LL         IIIIII  BBBBBBBB
     SSSSSSSS   CCCCCCC  RRRRRRR  LL         IIIIII  BBBBBBBB
SS            CC        RR     RR  LL            II      BB      BB
SS            CC        RR     RR  LL            II      BB      BB
SS            CC        RR     RR  LL            II      BB      BB
SS            CC        RR     RR  LL            II      BB      BB
     SSSSSS   CC        RRRRRRR   LL            II      BBBBBBBB
     SSSSSS   CC        RRRRRRR   LL            II      BBBBBBBB
         SS   CC        RR RR     LL            II      BB      BB
         SS   CC        RR  RR    LL            II      BB      BB
         SS   CC        RR   RR   LL            II      BB      BB
         SS   CC        RR    RR  LL            II      BB      BB   ....
SSSSSSSS        CCCCCCC  RR     RR LLLLLLLLLL  IIIIII  BBBBBBBB     ....
SSSSSSSS        CCCCCCC  RR     RR LLLLLLLLLL  IIIIII  BBBBBBBB     ....


LL           IIIIII     SSSSSSSS
LL           IIIIII     SSSSSSSS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II           SSSSSS
LL              II           SSSSSS
LL              II               SS
LL              II               SS
LL              II               SS
LL              II               SS
LLLLLLLLLL   IIIIII     SSSSSSSS
LLLLLLLLLL   IIIIII     SSSSSSSS
```

```
0001  0  ! Terminal Control Block Definitions for RTL SCR$ facility
0002  0  ! File: SCRTCB.REQ     Edit: RKR1001
0003  0  !
0004  0  ! Version:      'V04-000'
0005  0  !
0006  0  !****************************************************************
0007  0  !*                                                             *
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0024  0  !*   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.   *
0025  0  !*                                                             *
0026  0  !*                                                             *
0027  0  !****************************************************************
0028  0  !
0029  0  !
0030  0  !++
0031  0  ! FACILITY:     Screen Management
0032  0  !
0033  0  ! ABSTRACT:
0034  0  !
0035  0  ! This file contains the offsets for each variable in the Terminal Control
0036  0  ! Block.  A TCB is allocated by the screen package for each channel/terminal.
0037  0  !
0038  0  !
0039  0  ! AUTHOR: R. Reichert, CREATION DATE: 25-AUG-1982
0040  0  !
0041  0  ! MODIFIED BY:
0042  0  !
0043  0  ! 1-001 - Original.  RKR 25-AUG-1982
0044  0  !--
0045  0  !
0046  0  !+
0047  0  ! Terminal control block
0048  0  ! ----------------------
0049  0  !-
0050  0  MACRO
0051  0      SCR$L_FLINK      = 0, 0, 32, 0%,    ! Link pointer to next terminal
0052  0                                          ! control block
0053  0      SCR$L_BUFFER     = 4, 0, 32, 0%,    ! Address of buffer for buffer
0054  0                                          ! mode
0055  0      SCR$W_CHAN       = 8, 0, 16, 0%,    ! Channel number for this
0056  0                                          ! terminal
0057  0      SCR$B_TYPE       = 10, 0, 8, 0%,    ! Terminal type
```

```
0058  0           SCR$B_DEVTYP    = 11, 0,  8, 0%,   | Device type ($DCDEF)
0059  0           SCR$W_DEVWIDTH  = 12, 0, 16, 0%,   | Line width in characters
0060  0           SCR$W_DEVPAGSIZ = 14, 0, 16, 0%,   | Lines on screen
0061  0           SCR$L_DEVCHAR   = 16, 0, 32, 0%,   | Supported device characteristics
0062  0           SCR$L_AREA      = 20, 0, 32, 0%,   | Size of screen maps
0063  0           SCR$L_CHARMAP   = 24, 0, 32, 0%,   | Address of character array
0064  0           SCR$L_ATTRMAP   = 28, 0, 32, 0%,   | Address of attribute array
0065  0           SCR$L_MODFMAP   = 32, 0, 32, 0%,   | Address of modified bit map
0066  0           SCR$L_LINE      = 36, 0, 32, 0%,   | Current line
0067  0           SCR$L_COLUMN    = 40, 0, 32, 0%,   | Current column
0068  0           SCR$L_ATTRMASK  = 44, 0, 32, 0%,   | OR'd attributes for ATTRMAP
0069  0           SCR$L_STREAM    = 48, 0, 32, 0%,   | User-assigned stream number
0070  0           SCR$W_IFI       = 52, 0, 16, 0%,   | Context for RMS file calls
0071  0           SCR$W_ISI       = 54, 0, 16, 0%,   | Context for RMS record calls
0072  0           SCR$Q_RTNINFO   = 56, 0, 64, 0%,   | Quadword describing next two
0073  0                                              | locations
0074  0           SCR$L_RTNADDR   = 56, 0, 32, 0%,   | Routine call-back address for
0075  0                                              | output
0076  0           SCR$L_RTNARG    = 60, 0, 32, 0%,   | Argument to pass to routine
0077  0           SCR$L_CONTROL   = 64, 0, 32, 0%,   | Screen control flags
0078  0           SCR$V_SCROLL    = 64, 0,  1, 0%,   | Scrolling region active
0079  0                                              | 1 = ON
0080  0           SCR$L_DEVDEPND2 = 68, 0, 32, 0%,   | DEVDEPND2 as returned by
0081  0                                              | GETDVI
0082  0           SCR$L_EFN       = 72, 0, 32, 0%,   | Event flag number to use for
0083  0                                              | QIOs
0084  0           SCR$L_BUFSIZ    = 76, 0, 32, 0%,   | Size of buffer
0085  0           SCR$L_FTDATA    = 80, 0, 32, 0%,   | Data area for use by SCRFT (32 bytes)
0086  0           SCR$L_FAB       = 112, 0, 32, 0%,  | FAB alloc for output file
0087  0           SCR$L_RAB       = 116, 0, 32, 0%;  | RAB alloc for output fil
0088  0                                              | *** next free area is loc 120 ***
0089  0
0090  0   LITERAL
0091  0           SCR$C_SIZE = 120;                  ! Size of block per terminal
```

```
0092  0   ! Terminal Definitions for RTL SCR$ facility
0093  0   ! File:  SCRTERM.REQ    Edit: PLL1001
0094  0   !
0095  0   ! Version:      'V04-000'
0096  0   !
0097  0   ! ***********************************************************************
0098  0   ! *                                                                     *
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0116  0   ! *                                                                     *
0117  0   ! *                                                                     *
0118  0   ! ***********************************************************************
0119  0   !
0120  0   !
0121  0   !++
0122  0   ! FACILITY:     Screen Management
0123  0   !
0124  0   ! ABSTRACT:
0125  0   !
0126  0   ! This file contains terminal type definitions and escape sequences
0127  0   ! which are needed by various routines in the screen package.
0128  0   !
0129  0   !
0130  0   !
0131  0   ! MODIFIED BY:
0132  0   !
0133  0   ! 1-001 - Original.  PLL 18-Oct-1982
0134  0   !--
0135  0   !
0136  0   !+
0137  0   ! Special characters
0138  0   ! ------------------
0139  0   !-
0140  0   LITERAL
0141  0       BLANK        = %X'20',      ! blank (space)
0142  0       BS           = %X'08',      ! Backspace
0143  0       FF           = %X'0C',      ! Form feed
0144  0       LF           = %X'0A',      ! Line feed
0145  0       CR           = %X'0D',      ! Carriage return
0146  0       ESC          = %X'1B',      ! Escape
0147  0       LB           = %X'5B',      ! Left bracket (VT100)
0148  0       SEMI         = %X'3B',      ! Semi-colon
```

```
0149  0          NULL        = %X'00';        ! Null
0150  0
0151  0      !+
0152  0      ! Miscellaneous constants
0153  0      ! ------------------------
0154  0      !-
0155  0      LITERAL
0156  0          BUFSIZE     = 512,           ! Length of internal buffer in FOREIGN
0157  0          CB          = %X'1F' ;       ! Line/column bias in message
0158  0
0159  0      !+
0160  0      ! Terminal type definitions
0161  0      ! --------------------------
0162  0      !-
0163  0      LITERAL
0164  0          UNKNOWN     = 0,             ! Non-graphics or unknown type
0165  0          VT05        = 1,             ! VT05 series terminal
0166  0          VT52        = 2,             ! VT5x series terminal
0167  0          VT100       = 3,             ! VT100 series terminal
0168  0          VTFOREIGN   = 4 ;            ! Foreign terminal (FT1-8)
0169  0
0170  0      !+
0171  0      ! VT05 Codes
0172  0      ! -----------
0173  0      !-
0174  0      LITERAL
0175  0          VT05_SC     = %X'0E',        ! Set cursor position
0176  0          VT05_HOME   = %X'1D',        ! Set cursor to home
0177  0          VT05_CUP    = %X'1A',        ! Cursor up
0178  0          VT05_EOL    = %X'1E',        ! Erase to end of line
0179  0          VT05_EOS    = %X'1F' ;       ! Erase to end of screen
0180  0
0181  0      !+
0182  0      ! VT52 Codes
0183  0      ! -----------
0184  0      !-
0185  0      LITERAL
0186  0          VT52_SC     = %X'59',        ! Set cursor position
0187  0          VT52_HOME   = %X'48',        ! Set cursor to home
0188  0          VT52_DWN    = %X'49',        ! Down scroll
0189  0          VT52_EOS    = %X'4A',        ! Erase to end of screen
0190  0          VT52_EOL    = %X'4B' ;       ! Erase to end of line
0191  0
0192  0      !+
0193  0      ! VT100 Codes
0194  0      ! -----------
0195  0      !-
0196  0      LITERAL
0197  0          VT100_SC    = %X'66',        ! Set cursor position
0198  0          VT100_DWN   = %X'4D',        ! Down scroll
0199  0          VT100_EOS   = %X'4A',        ! Erase to end of screen
0200  0          VT100_EOL   = %X'4B',        ! Erase to end of line
0201  0          VT100_SGR   = %X'6D',        ! Select graphic rendition
0202  0          VT100_SM    = %X'72' ;       ! Set scrolling region
0203  0
```

```
;                              COMMAND QUALIFIERS

;        BLISS/LIB=LIB$:SCRLIB/LIS=LIS$:SCRLIB SRC$:SCRTCB.REQ+SRC$:SCRTERM.REQ

; Run Time:        00:01.0
; Elapsed Time:    00:01.8
; Lines/CPU Min:   11825
; Lexemes/CPU-Min: 32155
; Memory Used:  15 pages
; Library Precompilation Complete
```

SYSGMSG
LIS

SCRINPUT
LIS

SCRMISC
LIS

SCRREQ
LIS

SETPRIV.
LIS

SHRMSG
LIS

TPARSE
LIS

SCRCTB
LIS

SCRVECTOR
LIS

SSMSG
LIS